SONY

LCD Monitor

LMD-150S

Sony introduces the LMD-150S, a new 4:3 15-inch^{*1} LCD panel that enhances the exciting LUMATM Series of two-piece LCD monitors.

The LMD-150S is used in combination with its associated signal-processing unit² (the Multiformat Engine Unit), accepting a variety of signal formats ranging from SD to HD video, analog and digital, as well as analog computer signals. The Multiformat Engine Unit incorporates Sony's advanced X-Algorithm³ I/P conversion technology - the central element that enables the LMD-150S monitor to reproduce extremely smooth images.

The LMD-150S monitor uses a multi-layer AR coating, which protects the face panel from scratches and minimizes reflections from ambient light.

Combined with the Multiformat Engine Unit, the LMD-150S is the optimum choice for applications that mainly use Standard Definition today, but that will require HD monitoring in the future.



The Monitor Stand is optional.

FEATURES

Excellent Picture Reproduction

By nature, LCD panels operate in progressive mode, so displaying an interlace signal can be a difficult task. However, with the Sony LMD-150S, this concern is a thing of the past. The X-Algorithm processing used in the Multiformat Engine Unit, intelligently converts interlaced signals to progressive signals, using a highly sophisticated algorithm. The result is extremely smooth diagonal picture edges, which can be technically difficult to reproduce on conventional LCD monitors.

Excellent Brightness and Contrast(High Clarity Panel using Multi-Layer AR Coating)

Wide Viewing Angle of 170 degrees

Input Versatility

The Multiformat Engine Unit can accept the following SD or HD video formats:

- NTSC and PAL
- Component 480/60i and 575/50i
- Progressive 480/60p and 576/50p
- High definition 1080/50i, 1080/60i, 720/60p, 1080/24PsF, and 1080/25PsF

In addition, the analog composite and component interfaces are offered as standard. Digital interfaces such as HD-SDI, SD-SDI, and DV are offered as optional boards.

Operational Convenience

The LMD-150S monitor provides the convenient features for which Sony professional monitors are renowned, including:

- Advanced marker settings (Aspect Marker, Center Marker, and Safety Area)
- Color temperature/gamma selection
- Blue-only mode
- Three-color tally
- Protected controls
- H/V delay function
- Stereo audio monitoring
- Selectable scan size for video input and aspect ratio
- \bullet Mounting flexibility (19-inch EIA standard rack mounting *4 and VESA 75 x 75 mm spacings)

OPTIONAL ACCESSORIES

BKM-220D BKM-243HS BKM-255DV SMF-600 SU-558 MB-524 SDI 4:2:2 Input Adaptor HD/SD-SDI Input Adaptor DV Input Adaptor Display IF Cable (10m) Monitor Stand Mounting Bracket

^{*1} Viewable area measured diagonally.

¹² The LMD-150S must be used with the supplied Multiformat Engine Unit

^{*3} X-Algorithm is used for 480/60i and 575/50i signal input only.

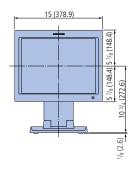
^{*4} Requires the optional MB-524 mounting bracket.

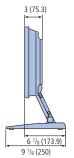
SPECIFICATIONS

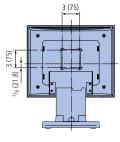
Picture Performance			
Type		a-Si TFT Active Matrix LCD with a multi-layer AR-coated protection panel	
Resolution		1024 x 768 dots	
Pixel Efficiency		99.99%	
Dot Pitch		0.297 x 0.297 mm	
Picture Size (H x W)		Approx. 12 x 9 inches (304 x 228 mm)	
(Diagonal)		15-inch (380 mm)	
Aspect		4:3	
Colors		16,770,000 colours	
Viewing Angle		85°/85°/85° (typical) (up/down/left/right contrast>10:1)	
Input			
Display Input Connector			
Digital Input			DVI-D
Dot Clock		25.175 MHz	65.000 MHz
Scanning Frequency	Horizontal	31.469 kHz	48.363 kHz
	Vertical	59.941 Hz	60.004 Hz
General			
Power Consumption		Approx. 35 W	
Power Requirement		DC 16.5 V/12 V	
Operating Temperature		32 to 95 °F (0 to 35 °C)	
Operating Humidity		30 to 85% (no condensation)	
Storage & Transport Temperature		14 to 104 °F (-10 to 40 °C)	
Storage & Transport Humidity		0 to 90%	
Operating/Storage/Trans. Pressure		700 to 1060 hPa	
Dimensions (W x H x D)		15 x 11 ² / ₃ x 2 ³ / ₄ inches*	
		(379 x 297x 70 mm*)	
Weight		Approx. 9 lb 11 oz (4.4 Kg)**	
		Approx. 21 lb 3 oz (9.6 Kg)*** Display interface cable, Warranty card, Operating instructions	

- * without the optional monitor stand and not including the projection parts ** without the optional SU-558 monitor stand.
- *** with the optional SU-558 monitor stand.

DIMENSIONS







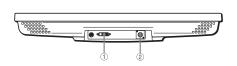
Unit: inches (mm)

BNC, Loop through, automatic 75 Ω termination (x3) 1.0 Vp-p ± 3 dB, sync negative Y/C S-Y: 1.0 Vp-p ±3 dB, sync negative S-C: 0.286 Vp-p ±3 dB (NTSC), 0.3 Vp-p ±3 dB (PAL) Y, PB, PR: 0.7 Vp-p ±3 dB G: 0.7 Vp-p ±3 dB, Sync on G 0.3Vp-p Component RGB B: 0.7 Vp-p ±3 dB R: 0.7 Vp-p ±3 dB Audio In Stereo mini jack (x1) (for Video signals) -5 dBu, more than 47 kΩ OPTION A-1 Option Slot (x1) OPTION A-2 OPTION B-1 Option Slot (x1) OPTION B-2 BNC, Loop-through, automatic 75 Ω termination Ext. Sync 0.3 to 4 Vp-p ±3 dB, sync negative, usable tri-level sync signal 0.6 Vp-p ± 3 dB HD D-sub 15-pin (female) (x1) Computer 0.7 Vp-p, 75 Ω, positive (R,G,B) Audio In Stereo mini jack (x1) -5 dBu, more than 47 kΩ (for computer signals) DC IN' XLR 4-pin (male) (x1), 12 V, output impedance 0.05 Ω or less Audio Monitor Out Stereo mini jack (x1) Stereo (0.5 W + 0.5 W) Speaker Out PARALLEL Remote Modular 8-pin (Assignable) Display Signal Out Display DC Out Exclusive connector (x1) XLR 4-pin (female) (x1), DC 16.5 V (when AC power is supplied) DC 12 V (when DC power is supplied) 15 to 45 kHz Horizontal Scanning Frequency 48 to 60 Hz Frame Scanning Frequency 110 MHz Horizontal Scanning Frequency Vertical Scanning Frequency (frame) 28 to 69 kHz 60 to 85 Hz Plug & Play Multiformat Engine Unit with LMD-150S: Approx. 58 W Power Consumption (without option boards) Multiformat Engine Unit only: Approx. 23 W (without option boar Power Requirement AC 100 to 240 V \pm 10%, 50/60 Hz, DC 12 V 32 to 95 °F (0 to 35 °C) Operating Temperature 30 to 85% (no codensation) Operating Humidity Storage and Trans. Temperature 14 to 104 °F (-10 to 40 °C) 0 to 90% Storage & Transport Humidity 700 to 1060 hPa Operating/Storage/Trans. Pressure Dimensions (W x H x D) 17 ¹/8 x 1 ³/4 x 12 ¹/8 inches excluding protrusions (434 x 44 x 305 mm) Approx. 9 lb 15 oz (4.5 Kg)** AC cord, AC plug holder, Mounting bracket, Operating instructions, Weight Supplied Accessories CD-ROM, Warranty card

- *This connector is used to supply external DC power to the LMD-150S via the Multiformat Engine Unit
- **Excluding supplied accessories

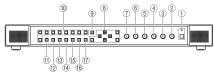
CONNECTOR PANEL

LMD-150S Front Connector



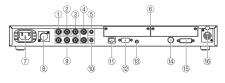
- ① DISPLAY SIGNAL IN
- ② DC IN jack

Multiformat Engine Unit Front Panel



- 1 Power switch and indicator
- ② VOLUME ③ CONTRAST
- **⑤** CHROMA ⑥ BRIGHT
- (7) APERTURE
- ® Menu
- 10 Input select
- ① APA (Auto Pixel Alignment)
- 12 SCAN
- (3) ASPECT
- (4) MARKER
- (5) BLUE ONLY
- @ MONO
- (7) HV DELAY

Multiformat Engine Unit Rear Panel



- ① G/Y/COMPOSITE (BNC)
- ② B/Pb/S-Y (BNC)
- ③ R/Pr/S-C (BNC)
- ④ EXT SYNC IN/OUT (BNC)
- (5) AUDIO IN (stereo mini jack)
- Optional input slot
- (7) AC IN
- ® DC 12V IN (XLR)
- Loop-through output (BNC)
- 10 AUDIO MONITOR OUT (stereo mini iack)
- (f) PARALLEL REMOTE (modular connector)
- @ COMPUTER SIGNAL IN
 - (D-sub 15 pin, female)
- (3) COMPUTER AUDIO (stereo mini jack)
- (4) Service terminal
- ® DISPLAY SIGNAL OUT
- ® DISPLAY DC OUT

(XLR, female)

SONY

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